Eugene A Streltsov

List of Publications by Year
in descending order

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60	1,089	394286	454834
papers	citations	19 h-index	30 g-index

61	61	61	1247
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Open-Structured Vanadium Dioxide as an Intercalation Host for Zn Ions: Investigation by First-Principles Calculation and Experiments. Chemistry of Materials, 2018, 30, 6777-6787.	3.2	111
2	Electrochemical deposition of PbSe films. Electrochimica Acta, 1998, 43, 869-873.	2.6	67
3	New Insight on Openâ€Structured Sodium Vanadium Oxide as Highâ€Capacity and Long Life Cathode for Znâ€"Ion Storage: Structure, Electrochemistry, and Firstâ€Principles Calculation. Advanced Energy Materials, 2020, 10, 2001595.	10.2	54
4	Photoinduced and dark underpotential deposition of lead on selenium. Journal of Electroanalytical Chemistry, 2002, 518, 103-114.	1.9	47
5	Potentiodynamic electrochemical impedance spectroscopy: lead underpotential deposition on tellurium. Journal of Electroanalytical Chemistry, 2004, 565, 227-234.	1.9	42
6	Electrochemical deposition of Ni and Cu onto monocrystalline n-Si(100) wafers and into nanopores in Si/SiO2 template. Journal of Materials Science, 2007, 42, 9163-9169.	1.7	38
7	Potentiodynamic electrochemical impedance spectroscopy of lead upd on polycrystalline gold and on selenium atomic underlayer. Electrochemistry Communications, 2005, 7, 631-636.	2.3	36
8	Electrochemical deposition of PbSe and CdTe nanoparticles onto p-Si(100) wafers and into nanopores in SiO2/Si(100) structure. Thin Solid Films, 2005, 490, 154-160.	0.8	35
9	Electrochemical deposition of PbSe1â^'xTex solid solutions. Electrochimica Acta, 1998, 44, 407-413.	2.6	33
10	Effect of Cd(II) on electrodeposition of textured PbSe. Electrochimica Acta, 1999, 44, 2645-2652.	2.6	31
11	Monoclinic bismuth vanadate band gap determination by photoelectrochemical spectroscopy. Materials Chemistry and Physics, 2017, 201, 189-193.	2.0	31
12	Electrochemical deposition of PbTe onto n-Si(100) wafers. Electrochemistry Communications, 2007, 9, 599-604.	2.3	29
13	Giant Incident Photonâ€toâ€Current Conversion with Photoconductivity Gain on Nanostructured Bismuth Oxysulfide Photoelectrodes under Visibleâ€Light Illumination. Advanced Materials, 2017, 29, 1702387.	11.1	29
14	Eu modified Cu2O thin films: Significant enhancement in efficiency of photoelectrochemical processes through suppression of charge carrier recombination. Chemical Engineering Journal, 2018, 335, 676-684.	6.6	28
15	Photocurrent switching effect on platelet-like BiOI electrodes: influence of redox system, light wavelength and thermal treatment. Electrochimica Acta, 2016, 190, 612-619.	2.6	27
16	Multiparametric characterisation of metal-chalcogen atomic multilayer assembly by potentiodynamic electrochemical impedance spectroscopy. Electrochimica Acta, 2008, 53, 3879-3888.	2.6	24
17	Multiparametric electrochemical characterisation of Teâ€"Cuâ€"Pb atomic three-layer structure deposition on polycrystalline gold. Electrochemistry Communications, 2006, 8, 921-926.	2.3	22
18	Electrodeposition of Te onto monocrystalline n- and p-Si(100) wafers. Electrochimica Acta, 2007, 52, 5213-5218.	2.6	22

#	Article	IF	Citations
19	Band-gap and sub-band-gap photoelectrochemical processes at nanocrystalline CdS grown on ZnO by successive ionic layer adsorption and reaction method. Thin Solid Films, 2015, 589, 145-152.	0.8	19
20	Photoelectrochemical formation of indium and cadmium selenide nanoparticles through Se electrode precursor. Electrochemistry Communications, 2004, 6, 1051-1056.	2.3	17
21	Influence of wide band gap oxide substrates on the photoelectrochemical properties and structural disorder of CdS nanoparticles grown by the successive ionic layer adsorption and reaction (SILAR) method. Beilstein Journal of Nanotechnology, 2015, 6, 2252-2262.	1.5	17
22	SnO2/reduced graphene oxide composite films for electrochemical applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 202, 61-67.	1.7	17
23	Electrochemical deposition of nanocrystalline PbSe layers onto p-Si (100) wafers. Thin Solid Films, 2005, 487, 49-53.	0.8	16
24	Electrodeposition of PbSe onto n-Si(100) wafers. Electrochimica Acta, 2008, 53, 5051-5057.	2.6	16
25	Hollanditeâ€Type VO_{1.75}(OH)_{0.5}: Effective Sodium Storage for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1900603.	10.2	16
26	Bismuth oxysulfide film electrodes with giant incident photon-to-current conversion efficiency: the dynamics of properties with deposition time. Physical Chemistry Chemical Physics, 2018, 20, 20340-20346.	1.3	15
27	Electrochemical deposition of lead and tellurium into barrierless nanoporous anodic aluminium oxide. Electrochimica Acta, 2012, 77, 65-70.	2.6	14
28	Rechargeable zinc-ion batteries with manganese dioxide cathode: How critical is choice of manganese dioxide polymorphs in aqueous solutions?. Journal of Power Sources, 2022, 523, 231023.	4.0	14
29	Electrochemical preparation of lead-doped amorphous Se films and underpotential deposition of lead onto these films. Surface Science, 2003, 532-535, 1092-1097.	0.8	13
30	Electrochemical impedance of platinum in concentrated chloride solutions under potentiodynamic anodic polarization: Effect of alkali metal cations. Electrochimica Acta, 2014, 122, 218-223.	2.6	13
31	Bismuth underpotential deposition on tellurium. Electrochemistry Communications, 2000, 2, 822-826.	2.3	12
32	Gelatin-templated mesoporous titania for photocatalytic air treatment and application in metal chalcogenide nanoparticle-sensitized solar cells. Photochemical and Photobiological Sciences, 2013, 12, 621-625.	1.6	12
33	Photoelectrochemical and Raman characterization of nanocrystalline CdS grown on ZnO by successive ionic layer adsorption and reaction method. Thin Solid Films, 2014, 562, 56-62.	0.8	12
34	Photocurrent Generation and Optical Transitions on Degenerate Cadmium Oxide Photoanodes. Physica Status Solidi A, 1989, 111, 193-199.	1.7	11
35	Photoelectrochemical and Raman characterization of In₂O₃ mesoporous films sensitized by CdS nanoparticles. Beilstein Journal of Nanotechnology, 2013, 4, 255-261.	1.5	11
36	Magnetic Anisotropy in Bicomponent Self-Assembled Ni and Ni-Pd Nanowires Studied by Magnetic Resonance Spectroscopy. IEEE Transactions on Magnetics, 2015, 51, 1-7.	1.2	11

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37	Evaluation of electroactive surface area of CdSe nanoparticles on wide bandgap oxides (TiO 2 , ZnO) by cadmium underpotential deposition. Electrochemistry Communications, 2016, 72, 176-180.	2.3	10
38	Effect of the Method of Preparation of ZnO/CdS and TiO2/CdS Film Nanoheterostructures on Their Photoelectrochemical Properties. Theoretical and Experimental Chemistry, 2013, 49, 165-171.	0.2	9
39	Underpotential shift in electrodeposition of metal adlayer on tellurium and the free energy of metal telluride formation. Journal of Solid State Electrochemistry, 2015, 19, 2511-2516.	1.2	9
40	Cadmium underpotential deposition on CdSe and CdS quantum dot films: size dependent underpotential shift. Electrochimica Acta, 2016, 220, 493-499.	2.6	9
41	Size-dependent photocurrent switching in chemical bath deposited CdSe quantum dot films. Journal of Solid State Electrochemistry, 2017, 21, 905-913.	1.2	9
42	Cadmium cathodic deposition on polycrystalline p-selenium: Dark and photoelectrochemical processes. Electrochimica Acta, 2011, 56, 3562-3566.	2.6	8
43	Underpotential Deposition of Cadmium on Colloidal CdSe Quantum Dots: Effect of Particle Size and Surface Ligands. Journal of Physical Chemistry C, 2019, 123, 931-939.	1.5	8
44	Spectral sensitization of TiO 2 with electrodeposited PbSe: improvement of photocurrent stability and light conversion efficiency. Electrochimica Acta, 2017, 249, 369-376.	2.6	7
45	Pulse electrodeposited bismuth-tellurium superlattices with controllable bismuth content. Journal of Power Sources, 2020, 450, 227605.	4.0	7
46	Electrochemical deposition of Te and electroless deposition of Se nanoparticles in etched tracks of Au+ ions in SiO2 layer on n-Si(100) wafers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 147, 271-275.	1.7	6
47	Electrical, photoelectrical, and photoelectrochemical properties of electrodeposited CdTe films subjected to high-energy irradiation. Thin Solid Films, 2011, 519, 7149-7152.	0.8	6
48	Photoemission electron microscopy of arrays of submicron nickel rods in a silicon dioxide matrix. Physics of the Solid State, 2014, 56, 1916-1921.	0.2	5
49	Crystal stacking: A route to control photoelectrochemical behavior of BiOBr films. Electrochimica Acta, 2018, 290, 63-71.	2.6	5
50	Underpotential deposition of lead onto Bi2Te3/Te heterostructures. Electrochemistry Communications, 2018, 94, 23-26.	2.3	5
51	Bismuth Oxysulfide Photoelectrodes with Giant Incident Photonâ€toâ€Current Conversion Efficiency: Chemical Stability in Aqueous Solutions. ChemElectroChem, 2019, 6, 2474-2481.	1.7	5
52	Effective p-type photocurrent sensitization of n-Bi2O3 with p-CuBi2O4 and p-CuO: Z-scheme photoelectrochemical system. Journal of Solid State Electrochemistry, 2020, 24, 401-409.	1.2	4
53	Platinum electrochemical corrosion and protection in concentrated alkali metal chloride solutions investigated by potentiodynamic nanogravimetry. Russian Journal of Electrochemistry, 2017, 53, 1-7.	0.3	3
54	Electrophoretically-Deposited CdSe Quantum Dot Films for Electrochromic Displays and Smart Windows. ACS Applied Nano Materials, 2021, 4, 6974-6984.	2.4	3

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55	Photoinduced selective copper electrodeposition on p-Si(111). Electrochemistry Communications, 2012, 17, 38-40.	2.3	2
56	Photocurrent Switching on Electrophoretic CdSe QD Electrodes with Different Ligands. International Journal of Nanoscience, 2019, 18, 1940053.	0.4	2
57	Determination of the Electrochemically Active Surface Area of PbSe and Bi2Te3 Films Using the Deposition of Lead Atoms. Theoretical and Experimental Chemistry, 2019, 55, 64-71.	0.2	2
58	The formation and properties of heterostructures based on titanium dioxide films volume-doped with palladium particles. Materials Chemistry and Physics, 1990, 25, 315-322.	2.0	1
59	The optimized electrochemical deposition of bismuth-bismuth telluride layered crystal structures. IOP Conference Series: Materials Science and Engineering, 2021, 1140, 012016.	0.3	1
60	Electrochemistry of bismuth interlayers in (Bi2)m(Bi2Te3)n superlattice. Journal of Solid State Electrochemistry, 2021, 25, 2807-2819.	1.2	0